Membrane separation apparatus with means for suppressing substances adhering on the surfaces of the membranes

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AN 124:149427 HCA

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SO Jpn. Kokai Tokkyo Koho, 3 pp. CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 07313851 A2 19951205 JP 1994-108833 19940524

AB In the title app. comprising appropriately spaced plural membrane elements (e.g., ceramic membrane elements), and cleaning the surfaces of the membranes by passing gas-liq.

mixed sweeping flows between adjacent membrane surfaces in vertical direction, flexible ribbons (e.g., synthetic resins or metal

in vertical direction, flexible ribbons (e.g., synthetic resins or metal foils) are inserted in those flow paths in vertical direction, and the upper and lower ends on the ribbons are fixed by fixing members. Adhering of substances on the surfaces of the membranes is suppressed. Cleaning effect is increased. The membrane sepn. app. is suitable for for water purifn.